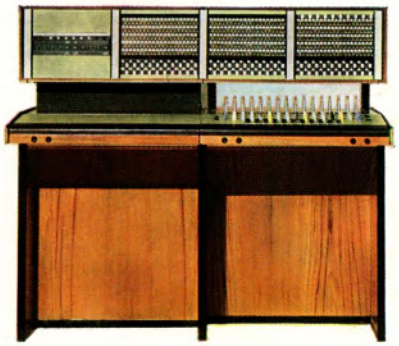
Reliance



The Reliance PABX3



Reliance Private Automatic Branch Exchange No 3

The new Reliance PABX 3 combines GPO telephone service with fully automatic internal communication.

It is ideal for any organisation requiring more than 50 extensions and looking for the most streamlined communication system on the market.

On the new PABX 3 incoming calls are given immediate personal service while extension users make their own calls through automatic switching equipment—dialling both the Public Exchange and internal extensions. In this way the Reliance PABX 3 ensures the best possible attention for that very important group of people—your customers.

The attractive new low-line operator's console is finished in teak with green and black working surfaces.

The operator answers and extends each incoming call by a cord circuit. Each switchboard unit has a capacity of 15 cord circuits, so the operator can handle up to 15 calls at a time.

For outgoing calls the operator uses a special keysender instead of a dial. The Keysender allows her to key out numbers at top speed—7 digits in about 2 seconds—so it leaves her free to deal with incoming calls.

A single unit Reliance PABX 3 switchboard. The cable turning section at the left of the unit (see picture on front page) contains an alarm panel which indicates to the operator any fault in the automatic equipment.



Making Calls

Outgoing Calls through the Public Exchange
Extensions may make calls through the Public Exchange in two ways
Dial ing '9' and then dialling the required number direct without the intervention of the PABX 3 operator
Dial ing '0' and requesting the PABX operator to make the connection
Selected extensions can be barred from making their own outgoing Public Exchange calls and can only obtain them via the PABX operator

Trunk Call Restriction
The direct dialling-out facility granted to certain extensions can be automatically imited to local calls only trunk calls being made through the operator

Through Clearing
Through clearing is provided on extension-to-exchange or inter-switchboard line calls so that when the extension replaces the receiver the PABX switching equipment is automatically released.

Metering
Meters registering the value (n units) of calls made can be fitted to exchange lines, extension lines, or the manual position as follows
Exchange Line A totals meter to register the value of calls on that exchange line.
Extension Line A clock meter hired from the GPO and fitted to the extension telephone.
Manual Position Up to 3 re-settable cyclometer trip meters provided on each position, each associated with a cord circuit. One of these metered cord circuits is used when it is necessary to record the cost of a call.

Internal Calls
Internal calls are made by dialling direct via the automatic switching equipment, and the operator is not nvolved.

Executive's Manual Service
Where an executive prefers not to dial numbers himself a manual extension line can be provided on which calls can be obtained for him by the operator or by his secretary

Receiving Calls

Incoming Calls from a Public Exchange
Incoming calls are signalled to the operator by lamps associated with the exchange lines and are connected to the required extension by means of the cord circuits. A follow-on call trap ensures that incoming calls do not bypass the operator and ring an extension which has just completed a call.

Trunk Offering
The operator can break into any conversation and offer a trunk call.

Recalling the Operator
An extension user may recall the PABX operator during an outside call. He does this by pressing the enquiry button on the instrument twice, which causes a lamp to flash on the switchboard.

Hold for Enquiry
During an exchange call, the user may wish to refer to another extension without being disconnected and without being overheard on the outside line. He can do this by pressing the enquiry button once, which holds the Public Exchange connection, and he is then able to make the enquiry call to any other extension, or over any other switchboard line normally accessible by dialling. On completion of the enquiry call, he presses the button a second time to re-establish the original connection.

Switchboard Operating Facilities

The first free line to the Public Exchange is ndicated to the operator by a green lamp. This saves her wasting time testing for an available line.

Individual Line Lamps

In systems with up to 800 ines, each extension is represented by its own line lamp and can be readily identified by the operator She is therefore able to give priority to selected extensions. In systems with over 800 lines, calls from extensions are signalled on grouped ('0' level) call lamps. However a limited number of priority extensions can be ndividually signalled.

Multiple Working

Where a number of switchboard units are installed, each operator can answer or extend a call on any line of the exchange by means of the 'multiple working' layout.

Night Service

Exchange Line Night Service

At night, exchange lines can be connected direct to selected extensions, and those extensions can make and receive calls direct from the Public Exchange.

Night Service Switchboard Unit

If there are numerous after-hours calls, a cordless Night Service switchboard unit, with up to four lines to the Public Exchange, can be provided for use by the night operator Calls are received on this unit and can be connected to any extension.

Optional Extras

Key Calling Equipment

Equipment to give direct access key calling is available n two forms

(a) As a complete desk unit for use with the standard GPO handset instrument.

(b) As a partially equipped unit to which the GPO will attach the chassis and handset of a loudspeaking instrument.

Tie Lines

Where there are two or more PABX systems in an organisation they can be connected by tie ines rented from the GPO. Calls between these Private Exchanges are independent of the Public Exchange, and can be made either automatically or through the PABX operator A PABX 3 can also be connected to satellite exchanges, enabling them to make and receive Public Exchange calls via the PABX operator

Other Extras

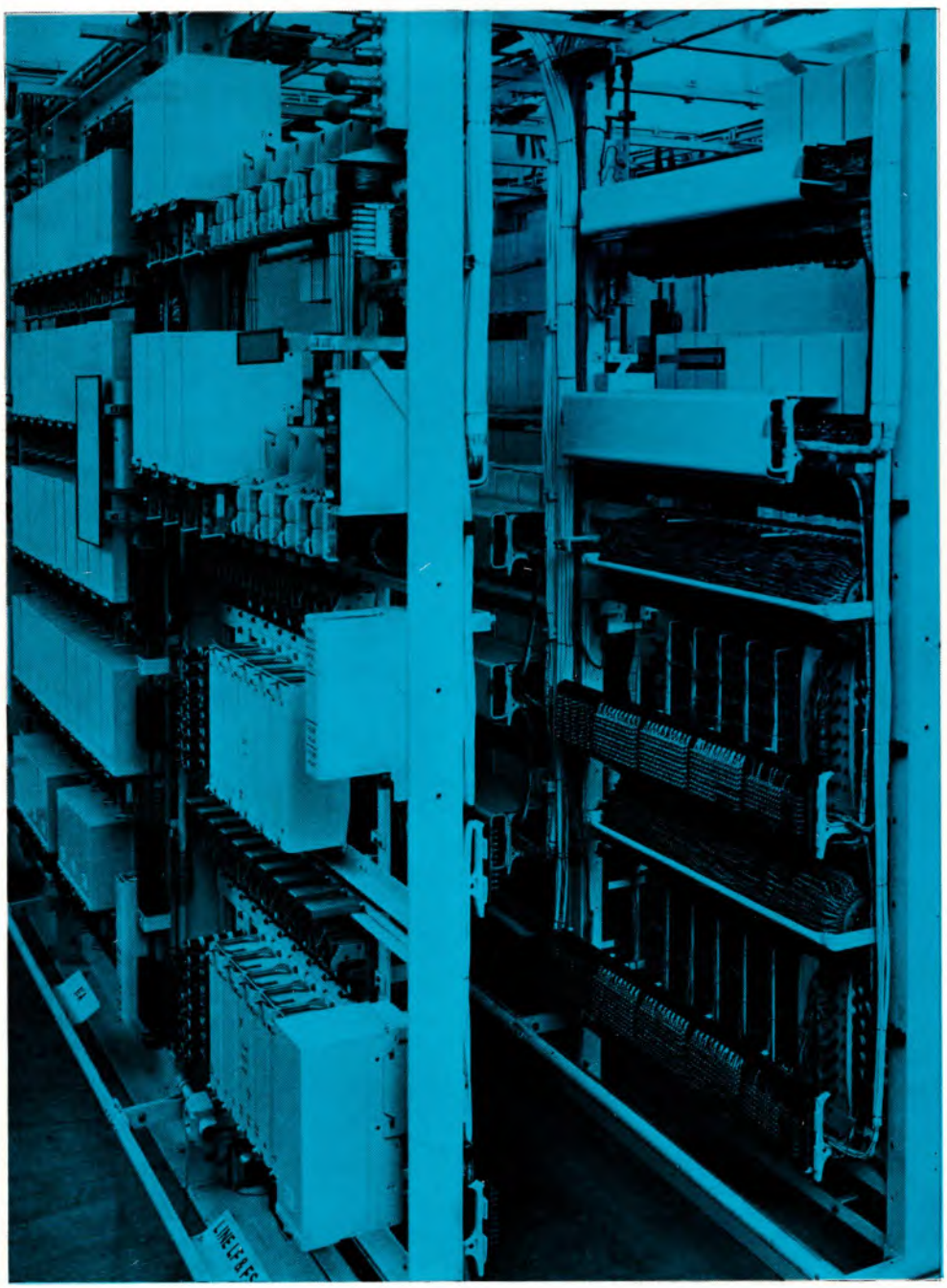
Central dictation access, emergency number conference facility supervisor's desk, enquiry desk.

Automatic Switching Equipment and Accommodation

The equipment is normally mounted on light steel racks 7' 6" high, (requiring a 9' ceiling height) but special 8' 6" racks (ceiling height 10') are available. Each unit of apparatus (switch, relay set, etc.) is protected by a metal dust-cover, and, being self-contained, can be removed from the rack without disconnecting any wiring. This simplifies maintenance and makes it easier to add units for increasing the capacity of the exchange. Standard Post Office equipment is used throughout.

It is necessary to provide separate rooms for the manual switchboard units and the automatic switching equipment. A typical system having three or four switchboard units would require an operators' room of about 10' x 13', while automatic switching equipment serving 300 extensions would need approximately 12' x 17' with a clear ceiling height of at least 9' In the automatic equipment room, clean, dust-free conditions are essential.

Specific information, including floor loading, suggested equipment layouts, etc., will be provided on request.



Ringing and Tones

Interrupted ringing is used for internal calls and operator controlled ringing for outside calls. Tones for dialling' 'busy' 'number engaged' and 'number unobtainable' are all as standardised by the GPO.

Automatic Lock-Out

When an extension handset is left off or when a line fault creates a similar condition, the equipment automatically releases after 30 seconds to prevent damage to the exchange. An alarm is given in the exchange room, and repeated on the switchboard unit, and the faulty line is readily identified.

Fault By-pass

The linefinder circuit, which connects extensions to the switching apparatus, is arranged so that no switch fault bars any extension from making calls.

Numbering

Extension numbers can be 3 or 4 digit, according to the size of the installation. Dialling '0' calls the PABX operator Diall ng '9' gives direct access to the Public Exchange.

Reliance Systems and Services

Automatic Exchange Systems (P.A.X./P.A.B.X.)
Clock and Time Recorder Systems
Closed-Circuit Television
Fire Alarm and Detection
Intercommunication Systems
Internal Broadcasting and Staff Location

For information on any of the above services please contact the Reliance Advisory Service at any of these addresses

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Telephone 01-836 1588

Midland Region
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Birmingham B5 6HN
Telephone 021-643 8351

Western Region
18 Lawford Street, Bristol BS2 0DL
Telephone 0272 551561

Scottish Region
123-145 North Street
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